Windows®. Life without Walls™. Fujitsu recommends Windows 7.



DATASHEET

FUJITSU ESPRIMO E3521 E-STAR 5.0 DESKTOP PC

YOUR FLEXIBLE ECONOMY PC

ESPRIMO E3521 E-STAR 5.0

The ESPRIMO E3521 E-Star5 is the right choice for major customers requiring the latest standard technology. This Small Form Factor PC, less than 13 litres in volume, combines top performance and extremely attractive prices. Equipped with a power supply unit with up to 87% efficiency and selected components it complies with the ENERGY STAR® standard, thus saving energy and protecting the environment. Freely configurable, with proven technology and an extended product lifecycle of 12 months, this PC is the perfect choice for cost-driven projects.



EXCELLENT PRICE / PERFORMANCE RATIO

Cost-effective system for major customer projects

■ Entry-level PC with standard technology

FLEXIBILITY

Freedom of choice with tailored systems, perfect fit for specific requirements

■ Flexible logistic concept - customizing program (made4you)

RELIABLILITY

Excellent quality and functional stability

■ Proprietary development and production in Europe

LIFECYCLE

Hardware continuity for long lasting project needs

■ Managed lifecycle up to 12 months

MEETS ENERGY STAR® 5.0 AND BLUE ANGEL REQUIREMENTS

Low power consumption and low costs, without any loss in performance.

■ Effective power supply of maximum 87%











COMPONENTS

| PROCESSOR | Intel® Core™2 Quad processor Q9650 (4 Cores / 4 Threads, 3.0 GHz, 12 MB, 1333 MHz) |
|--|---|
| | Intel® Core™2 Quad processor Q9550 (4 Cores / 4 Threads, 2.83 GHz, 12 MB, 1333 MHz) |
| | Intel® Core™2 Quad processor Q9505 (4 Cores / 4 Threads, 2.83 GHz, 6 MB, 1333 MHz) |
| | Intel® Core™2 Quad processor Q8300 (4 Cores / 4 Threads, 2.5 GHz, 4 MB, 1333 MHz) |
| | Intel® Core™2 Duo processor E8600 (2 Cores / 2 Threads, 3.33 GHz, 6 MB, 1333 MHz) |
| | Intel® Core™2 Duo processor E8500 (2 Cores / 2 Threads, 3.16 GHz, 6 MB, 1333 MHz) |
| | Intel® Core™2 Duo processor E8400 (2 Cores / 2 Threads, 3.0 GHz, 6 MB, 1333 MHz) |
| | Intel® Core™2 Duo processor E7600 (2 Cores / 2 Threads, 3.06 GHz, 3 MB, 1066 MHz) |
| | Intel® Core™2 Duo processor E7500 (2 Cores / 2 Threads, 2.93 GHz, 3 MB, 1066 MHz) |
| | Intel® Pentium® processor E6300 (2 Cores / 2 Threads, 2.8 GHz, 2 MB, 1066 MHz) |
| | Intel® Pentium® processor E5500 (2 Cores / 2 Threads, 2.8 GHz, 2 MB, 1066 MHz) |
| | Intel® Pentium® processor E5400 (2 Cores / 2 Threads, 2.7 GHz, 2 MB, 800 MHz) |
| | Intel® Celeron® processor E3200 (2 Cores / 2 Threads, 2.4 GHz, 1 MB, 800 MHz) |
| OPERATING SYSTEM | |
| Operating system optional preinstalled | Microsoft® Windows® 7 Home Premium |
| operating system optional premotalied | Microsoft® Windows® 7 Professional |
| | TwinLoad Microsoft® Windows® XP Professional (DVD) |
| Operating system compatible | Linux |
| Operating system notes | All Windows® 7 versions are Office 2007 ready. |
| | Please be aware that your Microsoft support for Windows XP is limited due to the fact that the end of the Extended Support |
| | Phase has been reached. Additionally, please be aware that Fujitsu Technology Solutions may only provide limited support for Windows XP due to the limited Windows XP support offered by Microsoft because of the discontinued Windows XP |
| | certification on system level. |
| MEMORY MODULES | 1 GB (1 module(s) 1 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM |
| WEWORT WODGES | 2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM |
| | 4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM |
| | |
| HARD DISK DRIVES (INTERNAL) | SSD SATA, 128 GB, 2.5-inch |
| | SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T. |
| | SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. |
| | SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T. |
| | SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T. |
| | SATA II, 7200 rpm, 160 GB, 3.5-inch, S.M.A.R.T. |
| | SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T. |
| Hard disk notes | Supporting NCQ and 3 GBit |
| GRAPHICS ADD ON CARDS (OPTIONAL) | DP to DVI-D (single link) Adapter Cable |
| | DVI-D + DisplayPort Extension Adapter |
| | DVI Extension Adapter |
| | NVIDIA® GeForce® 9300GE display port low profile, 512 MB |
| | NVIDIA® GeForce® 9300GE low profile, 512 MB |
| | NVIDIA® Quadro® NVS 290 low profile, 256 MB |
| DRIVES (OPTIONAL) | 1.44 MB Floppy |
| | Blu-ray Disc™ Triple Writer |
| | DVD-ROM |
| | DVD Super Multi |
| | MultiCard Reader 20in1, 3.5-Inch |
| INTERFACE ADD ON CARDS/COMPO- | |
| NENTS (OPTIONAL) | Davidlal laterings |
| | Parallel Interface |
| Base unit | ESPRIMO E3521 E-Star5 |
| Page 2 / 7 | http://te fuiiteu.com/ESPRIM |

| MAINBOARD | |
|-------------------------------|---|
| Mainboard type | D3041 |
| Formfactor | μATX |
| Chipset | Intel® G41 |
| Processor socket | LGA 775 |
| Processor quantity maximum | 1 |
| System bus (FSB / HT / QPI) | up to 1333 MHz |
| Memory slots | 2 DIMM (DDR3) |
| Supported capacity RAM (max.) | 8 GB |
| Memory frequency | 1066 MHz |
| Memory notes | Dual channel support. |
| Memory notes | For dual channel performance, 2 memory modules have to be ordered. Capacity per channel has to be the same. |
| LAN | 10/100/1000 MBit/s Realtek RTL8111DL |
| BIOS version | Phoenix 6.0 |
| BIOS features | BIOS Flash EPROM update by software Recovery BIOS |
| Audio codec | Realtek ALC663 |
| Audio features | High Definition audio, 5.1 surround sound |
| I/O CONTROLLER ON BOARD | |
| Serial ATA total | 4 |
| thereof eSATA | 0 |
| Controller functions | Serial ATA II 3 GBit |
| INTERFACES | |
| Audio: line-in | 1 |
| Audio: line-in / microphone | 1 |
| Audio: line-out | 1 |
| Front audio: microphone | 1 |
| Front audio: headphone | 1 |
| USB 2.0 total | 8 |
| USB front | 2 |
| USB rear | 4 |
| USB internal | 2 |
| VGA | 1 |
| DisplayPort | 1 (optional) |
| DVI | 1 (optional) |
| Serial (RS-232) | 1 (9pin, 16 byte FIFO, 16550 compatible) |
| Mouse / Keyboard (PS/2) | 2 |
| Ethernet (RJ-45) | 1 |
| Parallel | 1 (optional) (25pin with EPP and ECP) |
| Interface Module notes | Anytime USB charge functionality |
| INPUT DEVICE / COMPONENTS | Ontical LISP wheel mayor |
| Input devices (optional) | Optical USB wheel mouse Optical USB/PS2 tilt wheel mouse |
| DRIVE BAYS | <u> </u> |
| Drive bays total | 3 |
| 3.5-inch internal bays | 1 |
| 3.5-inch external bays | 1 |
| 5.25-inch external bays | 1 |
| Drive bay notes | optional external bay as internal 3,5" |
| SLOTS | |
| PCI-Express x16 | 1 x (210 mm) low profile |
| PCI-Express x1 | 1 x (210 mm) low profile |
| - | . , , , |

| SLOTS | |
|---|--|
| PCI (32-bit / 33 MHz) | 2 x (170/ 190 mm) low profile |
| | 2 X (170/ 190 Hilli) low profile |
| GRAPHICS ON BOARD | |
| Graphics brand name | Intel® GMA 4500 |
| Shared video memory | up to 1759 MB |
| Refresh rate 1024 x 768 (recommended / max.) | 85 Hz / - |
| Refresh rate 1280 x 1024 (recommended / max.) | 85 Hz / - |
| Refresh rate 1600 x 1200 (recommended / max.) | 85 Hz / - |
| TFT resolution (VGA) | 1360 x 768 pixel |
| | 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel |
| TFT resolution (DVI) | 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel |
| TFT resolution (DisplayPort) | 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 pixel |
| Graphics features | DirectX 10 HDCP support OpenGL® 2.0 |
| Graphics notes | Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz |
| ELECTRICAL VALUES | |
| Power efficiency note | power supply efficiency (at 230V; 20% / 50% / 100% load) : 86% / 88% / 85%) |
| | 0-Watt mode with hard-off switch |
| Rated voltage range | 100 - 240 V |
| Rated frequency range | 50 - 60 Hz |
| Operating voltage range | 90 - 264 V |
| Operating line frequency range | 47 - 63 Hz |
| Max. output of single power supply | 250 W |
| Power factor correction/active power | active |
| Monitor outlet | No |
| POWER CONSUMPTION | |
| Power consumption note | See white paper Energy Consumption |
| Link to Energy White Paper | http://docs.ts.fujitsu.com/dl.aspx?id=b0ce6669-1ef6-4d5b-8e4d-d7064dbd3f26 |
| HEAT DISSIPATION | |
| Heat dissipation notes | See white paper Energy Consumption |
| NOISE FOR STANDARD CONFIGURATION | I (HDD, ODD, FDD) |
| Noise emission | According to ISO9296 |
| Related Processors for noise | Intel® Core2™2 Duo E8600 |
| | |

| NOISE FOR STANDARD CONFIGURATION | · · · · · |
|---|---|
| Noise Operation mode 1: ODD load (Blue angel requirement) | 4.4 B / 29 dB(A) |
| Noise Operation mode 2: HDD load (Blue angel requirement) | 4.1 B / 26 dB(A) |
| Noise Operation mode 3: CPU 90% load (Blue angel requirement) | 4.0 B / 25 dB(A) |
| Noise Operation mode 4: High load | 4.1 B / 26 dB(A) |
| Noise Operation mode 5: Office applications | 4.1 B / 26 dB(A) |
| Idle mode (Blue Angel requirement) | 4.0 B / 24 dB(A) |
| Noise notes / description | A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position |
| DIMENSIONS / WEIGHT / ENVIRONMENT | TAL TALL |
| Dimensions (W x D x H) | 330 x 405 x 104 mm |
| Operating position | Vertical / horizontal (optional, feet needed) |
| Weight | approx. 10 kg |
| Weight notes | Actual weight may vary depending on configuration |
| Operating ambient temperature | 10 - 35°C |
| COMPLIANCE | |
| Product | ESPRIMO E3521 |
| Model | DTL1-3041 |
| Germany | Blauer Engel / Blue Angel GS |
| Europe | CE |
| USA/Canada | FCC Class B CSA |
| Global | RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0 EPEAT® Silver |
| Compliance link | https://sp.ts.fujitsu.com/sites/certificates/default.aspx |
| ADDITIONAL SOFTWARE | |
| Additional software (preinstalled) | Nero Essentials S (burning software) |
| Additional software (optional) | Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive) |
| COMPATIBILITY (REFERENCES) | |
| | DMI 2.0 PC 2001 WMI 1.5 USB 2.0 |
| MANAGEABILITY | |
| Manageability features | DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) |
| DeskView features | WoL (Wake on LAN) |
| Manageability link | http://ts.fujitsu.com/manageability http://www.altiris.com/fujitsu |
| SECURITY | |
| Physical security | Kensington Lock support Eye for padlock |
| System security | Boot sector virus protection Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Control of all USB interfaces |

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| SECURITY | |
|--------------------------------|---|
| User security | User and supervisor BIOS password |
| | Optional: Access protection via external SmartCard reader |
| | Optional: Access protection via internal SmartCard reader |
| PACKAGING INFORMATION | |
| Packaging dimension | 500x290x540 mm |
| Max. quantity / pallet | 24 |
| Material - Weight (g) Carton | 1270 g |
| Material - Weight (g) EPS / PS | 200g |
| Material - Weight (g) PE | appr. 60 g |
| Packaging notes | printed user documentation is bleached in chlorine free process |
| WARRANTY | |
| Standard Warranty | 1 year |
| Service level | Bring-In / On-Site Service (depending on country) |
| MAINTENANCE AND SUPPORT SERV | ICES - THE PERFECT EXTENSION |
| Recommended Service | 5x9, Response Time: Next Business Day |
| Spare Parts availability | 5 years |
| Service Weblink | http://ts.fujitsu.com/Supportservice |

FUJITSU PLATFORM SOLUTIONS

In addition to Fujitsu ESPRIMO E3521 E-Star 5.0, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

MORE INFORMATION

Learn more about Fujitsu ESPRIMO E3521 E-Star 5.0, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

http://ts.fujitsu.com/ESPRIMO

FUJITSU GREEN POLICY INNOVATION

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/



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